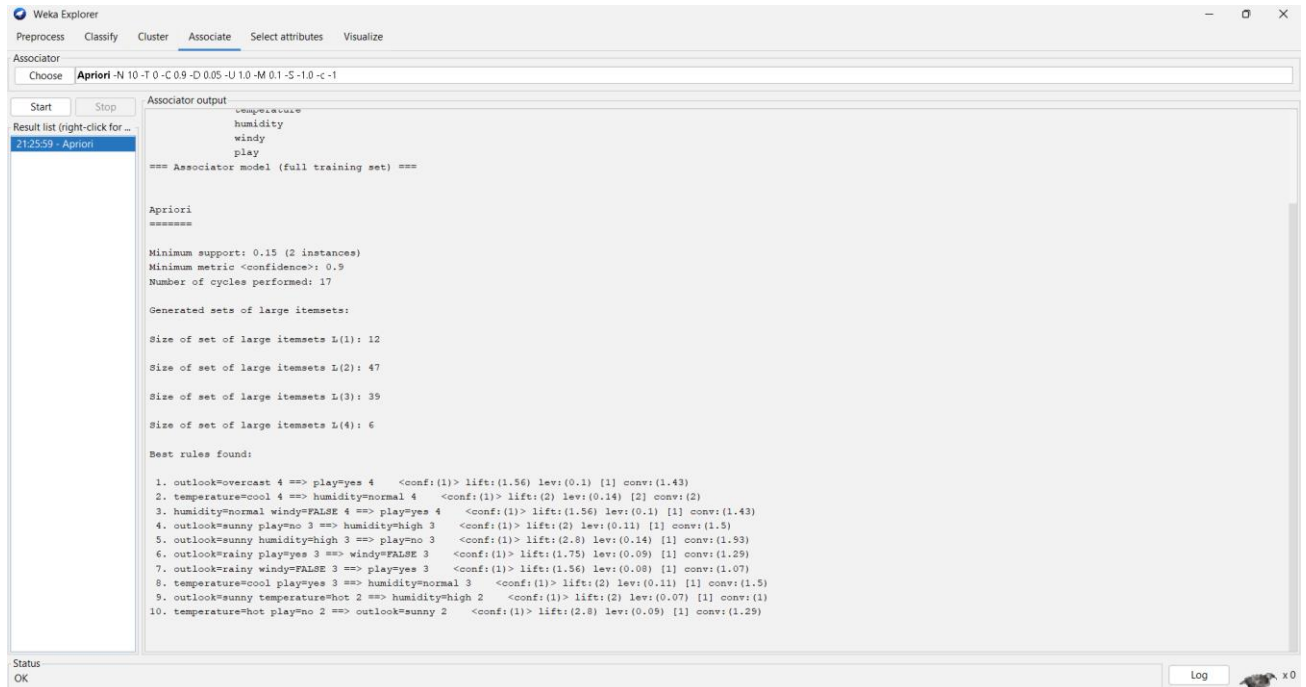


Aim: Implementation of Apriori algorithm in WEKA.

Software used : Wekatools



The screenshot displays the Weka Explorer application window. The 'Associate' tab is selected in the top menu. The 'Associator' dropdown menu shows 'Apriori' selected. The 'Result list' on the left shows 'z12559 - Apriori' selected. The main output area displays the following text:

```
==== Associator output ====
temperature
humidity
windy
play

==== Associator model (full training set) ====

Apriori
=====

Minimum support: 0.15 (2 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 17

Generated sets of large itemsets:

Size of set of large itemsets L(1): 12
Size of set of large itemsets L(2): 47
Size of set of large itemsets L(3): 39
Size of set of large itemsets L(4): 6

Best rules found:

1. outlook=overcast 4 ==> play=yes 4 <conf: (1)> lift: (1.56) lev: (0.1) [1] conv: (1.43)
2. temperature=cool 4 ==> humidity=normal 4 <conf: (1)> lift: (2) lev: (0.14) [2] conv: (2)
3. humidity=normal windy=FALSE 4 ==> play=yes 4 <conf: (1)> lift: (1.56) lev: (0.1) [1] conv: (1.43)
4. outlook=sunny play=no 3 ==> humidity=high 3 <conf: (1)> lift: (2) lev: (0.11) [1] conv: (1.5)
5. outlook=sunny humidity=high 3 ==> play=no 3 <conf: (1)> lift: (2.8) lev: (0.14) [1] conv: (1.93)
6. outlook=rainy play=yes 3 ==> windy=FALSE 3 <conf: (1)> lift: (1.75) lev: (0.09) [1] conv: (1.29)
7. outlook=rainy windy=FALSE 3 ==> play=yes 3 <conf: (1)> lift: (1.56) lev: (0.08) [1] conv: (1.07)
8. temperature=cool play=yes 3 ==> humidity=normal 3 <conf: (1)> lift: (2) lev: (0.11) [1] conv: (1.5)
9. outlook=sunny temperature=hot 2 ==> humidity=high 2 <conf: (1)> lift: (2) lev: (0.07) [1] conv: (1)
10. temperature=hot play=no 2 ==> outlook=sunny 2 <conf: (1)> lift: (2.8) lev: (0.09) [1] conv: (1.29)
```

The status bar at the bottom shows 'Status OK' and a 'Log' button.